

## Ladybirds in the Garden

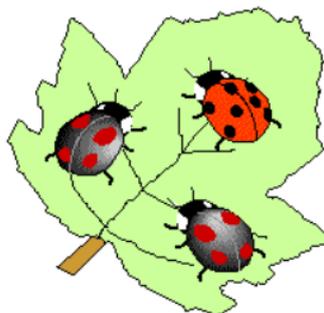
Read the challenge below carefully.

How will you show what you did? Remember it's ok to show incorrect examples to as we often learn from these.

In Sam and Jill's garden there are two sorts of ladybirds. There are red Seven-Spot ladybirds with 7 black spots and shiny black Four-Spot ladybirds with 4 red spots.



Sam and Jill looked at a leaf with three ladybirds on it.



"One Seven-Spot ladybird," said Sam, "and two Four-Spot ones."

"That's 15 spots altogether!" laughed Jill.

"I wonder if we could find ladybirds whose spots add to other numbers. I know how to do 16."

"And 14 is easy too," added Sam.

How would you make 16 and 14 spots with the Seven-Spot and Four-Spot ladybirds?

What other numbers can you make with adding 4s and 7s?

Can you get lots of numbers from say 4 to 35?

Are there some numbers you can't get?